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### EXPRESS MAIL CERTIFICATE

Express Mail No.: - EV 645600417 US

Date of Deposit: - June 13, 2005

Type of Document(s):  
- Transmittal Form (PTO/SB/21)  
- Power Of Attorney and Correspondence  
    Address Indication Form (PTO/SB/81) (3 pgs.)  
- Chain of Title Documents (8 pgs.)  
- Postcard Filing Receipt

Application No.: - 09/933,991

Filing Date: - August 20, 2001

Applicant(s): - Angshuman SAHA

Title: - SYSTEM FOR TRANSPORTING SUB-RATE DATA  
OVER A COMMUNICATION NETWORK

Examiner: - Melanie Jagannathan

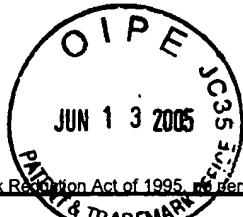
Art Unit: - 2666

Attorney Docket No.: - 6950-60280 (008856-0001)

Our Ref: - 4313

I hereby certify that the above-referenced documents are being/have been deposited with the United States Postal Service "Express Mail Post Office to Addressee" in accordance with 37 CFR 1.10 on the above-referenced date and are being/have been addressed to:  
**Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 USA.**

Barbara C. Brown  
Barbara C. Brown  
Paralegal



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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

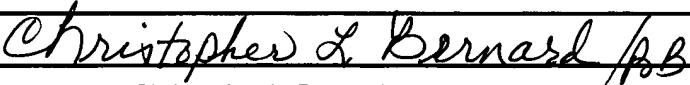
Total Number of Pages in This Submission

12

Application Number	09/933,991
Filing Date	August 20, 2001
First Named Inventor	Angshuman SAHA
Art Unit	2666
Examiner Name	Melanie Jagannathan
Attorney Docket Number	6950-60280 (008856-0001)

<b>ENCLOSURES (Check all that apply)</b>			
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation (1 pg.) <input type="checkbox"/> Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):	Remarks  Statement Under 37 CFR 3.73(b) Chain of Title Documents (9 pgs.) Return Receipt Postcard

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	DOUGHERTY, CLEMENTS, HOFER, BERNARD & WALKER		
Signature			
Printed name	Christopher L. Bernard		
Date	June 13, 2005	Reg. No.	48,234

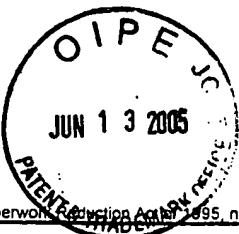
### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Barbara C. Brown	Date	6-13-2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/81 (04-05)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	09/933,991
Filing Date	August 20, 2001
First Named Inventor	Angshuman SAHA
Title	System for Transporting...Data...
Art Unit	2666
Examiner Name	Melanie Jagannathan
Attorney Docket Number	6950-60280 (008856-0001)

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

Practitioners associated with the Customer Number:

22474

OR

Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The address associated with the above-mentioned Customer Number:

OR

The address associated with Customer Number:

OR

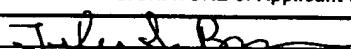
<input type="checkbox"/>	Firm or Individual Name			
Address				
City		State	North Carolina	Zip
Country				
Telephone		Email		

I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

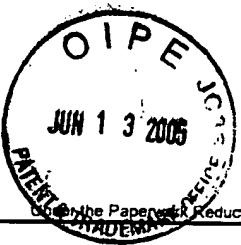
Signature		Date	6/10/05
Name	Tyler S. Brown	Telephone	410-865-8078
Title and Company	Chief IP Counsel, CIENA Corporation		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

\*Total of 01 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/96 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Angshuman SAHAApplication No./Patent No.: 09/933,991 Filed/Issue Date: August 20, 2001

Entitled: System for Transporting Sub-Rate Data Over a Communication Network

CIENA Corporation, a Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

A  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Angshuman SAHA et al. To: ONI Systems Corp.  
The document was recorded in the United States Patent and Trademark Office at Reel 12534, Frame 0909, or for which a copy thereof is attached.
2. From: ONI Systems Corp. To: CIENA Corporation  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

Tyler C. Brown

Printed or Typed Name

Chief IP Counsel, CIENA Corporation

Title

6/10/05

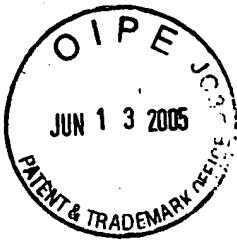
Date

410-865-8078

Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PATENT  
4450-0355P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Angshuman SAHA et al. Conf. 7706  
Appl. No.: 09/933,991 Group: 2152  
Filed: August 20, 2001 Examiner: Unknown  
For: SYSTEM FOR TRANSPORTING SUB-RATE DATA  
OVER A COMMUNICATION NETWORK

REVOCATION OF POWER OF ATTORNEY, SUBSTITUTE POWER  
OF ATTORNEY, AND CHANGE IN CORRESPONDENCE ADDRESS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The Assignee of the above-identified patent application, CIENA Corporation having a business office at 1201 Winterson Road, Linthicum, MD 21090, as evidenced by the enclosed Certificate Under 37 C.F.R. § 3.73(b) showing chain of title, hereby revokes any and all previous powers of attorney for the above-identified patent application or issued patent, and hereby appoints the practitioners at CUSTOMER NO. 02292 (BIRCH, STEWART, KOLASCH & BIRCH, LLP) as the attorneys of the Assignee to receive all correspondence relating to the above-identified application or patent and to transact all business in the United States Patent and Trademark Office connected therewith, with full power of substitution and revocation, and the Assignee ratifies any act done by the Assignee's attorneys in respect of this patent.

The new correspondence address is:

BIRCH, STEWART, KOLASCH & BIRCH, LLP or Customer No. 02292  
P.O. Box 747  
Falls Church, VA 22040-0747  
(703) 205-8000

The undersigned (whose title is supplied below) is empowered to sign this Revocation and Substitute Power of Attorney on behalf of the Assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

4/20/04  
Date



Signature

Russell B. Stevenson, Jr.

Typed or printed name

Senior Vice President  
General Counsel & Secretary  
CIENA Corporation  
Title

Enclosure: Certificate Under 37 C.F.R. § 3.73(b)  
showing chain of title.

(Rev. 02/18/2004)



PATENT  
4450-0355P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Angshuman SAHA et al. Conf. 7706  
Appl. No.: 09/933,991 Group: 2152  
Filed: August 20, 2001 Examiner: Unknown  
For: SYSTEM FOR TRANSPORTING SUB-RATE DATA  
OVER A COMMUNICATION NETWORK

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)  
SHOWING CHAIN OF TITLE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

CIENA Corporation, a corporation certifies that it is the assignee of the patent application or issued patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application or issued patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- OR -

B.  A chain of title from the inventor(s), of the patent application or issued patent identified above, to the current assignee as shown below:

1. From: ONI SYSTEMS CORPORATION  
To: CIENA Corporation

The document was filed in the Patent and Trademark Office on March 8, 2004, for which a copy thereof is attached.

2. From: Angshuman Saha, Andre Archambault; and Carlos Henriquez  
To: ONI SYSTEMS CORPORATION  
The document was recorded in the Patent and Trademark Office at Reel 12534, Frame 0909.

- Additional documents in the chain of title are attached.
- Copies of assignments or other documents in the chain of title are attached

The undersigned has reviewed all the documents in the chain of title of the patent application or issued patent identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

4/2/04

Date

  
Signature

Russell B. Stevenson, Jr.

Typed or printed name

Senior Vice President  
General Counsel & Secretary  
CIENA Corporation

Title



Atty. Docket No.: 4450-0359P  
Page 1 of 1

## RECORDATION FORM COVER SHEET

To the Director of the U.S. Patent and Trademark Office:  
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**ONI SYSTEMS CORPORATION**

Additional name(s) of conveying party(ies) attached?

YES  NO

3. Nature of conveyance:

Assignment  Merger

Execution Date: June 21, 2002

2. Name and address of receiving party(ies)

Name: **CIENA Corporation**

Internal Address:

Street Address: **1201 Winterson Road**

City: **Linthicum** State: **MD** ZIP: **21090**

Country: **USA** Postal Code:

Additional name(s) & address(es) attached?  YES  NO

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s).

**10/161,217**

**09/933,991**

**09/855,822**

**10/027,916**

B. Patent No.(s).

Additional numbers attached?  YES  NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **BIRCH, STEWART, KOLASCH & BIRCH, LLP**

Street Address: **P.O. BOX 747**

City: **FALLS CHURCH** State: **VA** ZIP: **22040-0747**

Country: **USA**

6. Total No. of applications/patents involved: **four (4)**

7. Total fee (37 C.F.R. § 3.41): **\$160.00**

Enclosed

Authorized to be charged to deposit account,  
if no fee attached.

8. Deposit account number: **02-2448**

(Attach triplicate copy of this page  
if paying by deposit account)

**DO NOT USE THIS SPACE**

9. Statement and signature.

**Michael R. Cammarata, #39,491**  
Name of Person Signing/Reg. No.

Signature

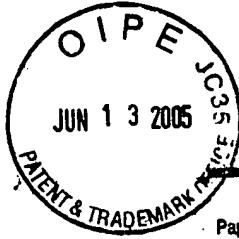
**March 8, 2004**

Date

Total number of pages including cover sheet, attachments, and document: **sixty (60)**

MRC/kpc

(Rev. 02/13/2004)



Papers Filed herewith on: March 8, 2004 16  
DOCKET NO: 4450-0100M ATTY: MRC

\*PPIn. Nos: 10/161,217  
09/933,991  
09/855,822  
10/027,916

- New Application with Transmittal Letter  
 Utility  Design  CIP  PCT  Provisional  
 Filing Under 37 CFR 1.53(b)  
 Filing Under 37 CFR 1.53(d) (CPA)  
 Filing Under 37 CFR 1.114(RCE)  
 Specification Consisting of: \_\_\_\_\_  
 Combined Declaration & Power of Attorney  
 Assignment / Cover Letter (*Merge & TRADEMARK OFFICE*)  
 Letter to Official Draftsman  
 Drawings \_\_\_\_\_ Sheets  Formal  Informal  Red-Link  
 Completion of Filing Requirements, PCT/DO/EO/905  
or Formalities Letter and Executed Declaration  
 Priority Document(s) / Cover Letter, No. Doc. \_\_\_\_\_  
 Amendment: \_\_\_\_\_  
 Transmt Ltr  Large Entity  Small Entity  
 Response: \_\_\_\_\_  
 Information Disc Stmtl PTO-1449(s) \_\_\_\_\_ ref(s)  
 Notice of Appeal  Appeal Brief  
 Issue Fee Transmittal  
 FEES: \$160.00 (ct. no. 9013906)  
 Letter: \_\_\_\_\_  
 Other: \_\_\_\_\_

DOCKET NO. 4450-0100M

Receipt is hereby acknowledged of the papers filed as  
indicated in connection with the above identified case.  
COMMISSIONER OF PATENTS AND TRADEMARKS  
Due Date: \_\_\_\_\_  
Handcarry: \_\_\_\_\_



# Delaware

PAGE 1

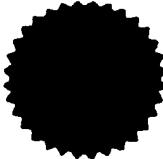
*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"OMT SYSTEMS CORP.", A DELAWARE CORPORATION,  
WITH AND INTO "CIMA CORPORATION" UNDER THE NAME OF "CIMA CORPORATION", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-FIRST DAY OF JUNE, A.D. 2002, AT 1:30 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE TWENTY-FIRST DAY OF JUNE, A.D. 2002, AT 11:59 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

  
Harriet Smith Windsor  
Harriet Smith Windsor, Secretary of State

2314539 810CM

020402001

AUTHENTICATION: 1845589

DATE: 06-21-02



**CERTIFICATE OF MERGER  
OF**

STATE OF DELAWARE  
DEPARTMENT OF STATE  
DIVISION OF CORPORATIONS  
FILED 01:38 PM 06/22/2005  
0206027001 - 5314539

ONI SYSTEMS CORP.  
a Delaware Corporation  
WITH AND INTO  
CIENA CORPORATION,  
a Delaware Corporation

The undersigned corporation DOES HEREBY CERTIFY:

FIRST: That the name and state of incorporation of each of the constituent corporations of the merger is as follows:

NAME	STATE OF INCORPORATION
CIENA Corporation	Delaware
ONI Systems Corp.	Delaware

SECOND: That an agreement of merger between the constituent corporations has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations in accordance with the requirements of Section 251 of the General Corporation Law of the State of Delaware.

THIRD: That the name of the surviving corporation of the merger is CIENA Corporation.

FOURTH: That the certificate of incorporation of CIENA Corporation, a Delaware corporation, the surviving corporation, shall be the certificate of incorporation of the surviving corporation.



FIFTH: That the executed agreement of merger is on file at the principal place of business of the surviving corporation. The address of the principal place of business of the surviving corporation is 1201 Wintergreen Road, Linthicum, MD 21090.

SIXTH: That a copy of the agreement of merger will be furnished by the surviving corporation, on request and without cost, to any stockholder of each of the constituent corporations.

SEVENTH: The effective date of the merger shall be as of 11:59 p.m. Eastern Time on June 21, 2002.

IN WITNESS WHEREOF, CIENA Corporation, a Delaware corporation, has caused this certificate to be signed by Russell R. Stevenson, Jr., its Senior Vice President, General Counsel and Secretary, an authorized officer of the corporation, this 21st day of June, 2002.

CIENA Corporation,  
a Delaware corporation

By:

Russell R. Stevenson, Jr.  
Senior Vice President, General  
Counsel and Secretary

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